

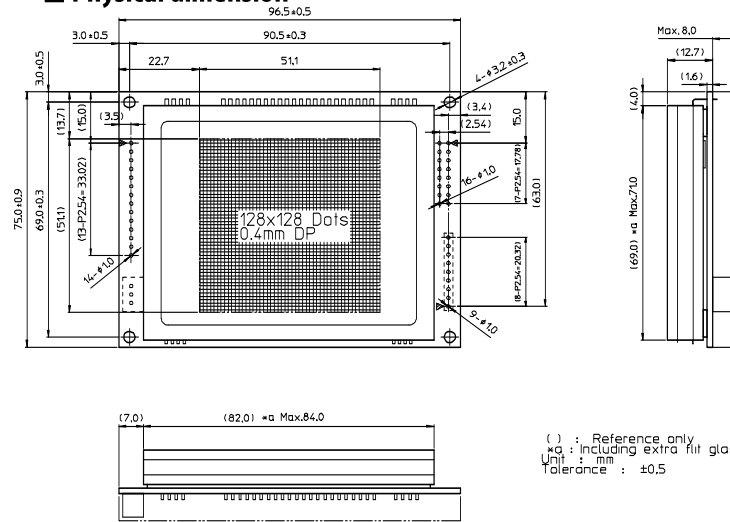
# GU128X128D-7203

## SIMPLIFIED DATASHEET

### Features

128x128 dots - a unique square display. Excellent for showing graphs, the compact width is also a good fit for equipment with front-mounted control panels. The -72xx model has improved functionality over the previous -70xx model.

### Physical dimension



### Get full specification



Click here to go to request form.

### Specifications

#### Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply voltage	VCC	4.75	5.00	5.25	VDC	-

#### Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
<b>Serial IF</b>						
Logic Input Voltage	VsIH	3	-	15	VDC	-
RXD, CLK, DSR/ SRST	VsIL	-15	-	-3	VDC	-
Logic input voltage	VsIH2	0.8VCC	-	VCC	VDC	-
RST	VsIL2	0	-	0.5	VDC	-
Logic input current	IpIH	-	-	1.0	μADC	-
RXD, CLK, RST, DSR/ SRST	IpIL	-	-	-200	μADC	-
Logic output voltage	VsOH	VCC-0.6	-	-	VDC	IOH=-1mA
TXD, DTR	VsOL	-	-	0.6	VDC	IOL=4mA
<b>General-purpose I/O port</b>						
Logic input current	IiIH	-	-	1.0	μADC	-
Port 0, 1	IiIL	-	-	-200	μADC	-
Logic input voltage	ViIH	4.1	-	VCC	VDC	-
Port 0, 1	ViIL	0	-	0.8	VDC	-
Logic output voltage	ViOH	VCC-0.6	-	-	VDC	IOH=-200 μA
Port 0, 1	ViOL	-	-	0.5	VDC	IOL=1.6mA
Output permissible current (Port 0, 1)	IiOH	-	-	1.5	mADC	Single port
	IiOL	-	-	3	mADC	
	IiOH	-	-	8	mADC	Sum of all ports
	IiOL	-	-	30	mADC	
Power Supply Current 1	ICC1	-	0.70	0.98	ADC	All dots ON
Power Supply Current 2	ICC2	-	0.50	0.70	ADC	All dots OFF
Power Supply Current 3	ICC3	-	53	80	mADC	Display power OFF
Power Consumption	-	-	3.5	4.9	W	All dots ON

#### Optical Specifications

Parameter	Value
Number of Dots	16,384 (128 x 128)
Character numbers	18 x 16 by 6 x 8 dot ANK 8 x 4 by 16 x 32 dot ANK
Display Area	51.1 mm x 51.1 mm
Dot Size (X x Y)	0.3 mm x 0.3 mm
Dot Pitch (X x Y)	0.4 mm x 0.4 mm
Luminance	350 cd/m <sup>2</sup> Min. (800 cd/m <sup>2</sup> Typ.)
Color of illumination	Green (Blue-Green)

#### Environmental Specifications

Parameter	Value
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-40 ~ +85 degrees celsius
Operating Humidity	20 ~ 80% R.H. (non-condensing)
Storage Humidity	20 ~ 80% R.H. (non-condensing)
Vibration (non-operating)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (non-operating)	392m/s <sup>2</sup> (40G) 9ms X-Y-Z, 3 times each direction

#### Physical Specifications

Parameter	Value
Number of dots	128 x 128 dots
Character font type	6 x 8 ANK, International font 8 x 16 ANK, International font 12 x 24 ANK, International font 16 x 32 ANK, International font
Character width	Fixed/Proportional character format 1&2
Weight	About 127 g

#### Interface

Sync/Asynchronous Serial (CMOS), General-purpose I/O port

#### Pin Assignment (Sync/Asynchronous Serial)

Pin No.	Signal	Baud Rate Setting
1	RST	4800bps
2	SCK	9600bps
3	RXD	19200bps
4	DTR	38400bps*
5	DSR/ SRST	57600bps
6	TXD	115200bps
7	TEST	(*:Default setting)
8	VCC	
9	GND	

#### (General-purpose I/O port)

Pin No.	Signal	Pin No.	Signal
1	bit7 (port0)	8	bit0 (port0)
2	bit6 (port0)	9	bit3 (port1)
3	bit5 (port0)	10	bit2 (port1)
4	bit4 (port0)	11	bit1 (port1)
5	bit3 (port0)	12	bit0 (port1)
6	bit2 (port0)	13	VCC
7	bit1 (port0)	14	GND

#### Functions

Parameter	Value
Control command	
Scroll display action	
Display action command	
Proportional Font function	
User-Windows function	
AND/OR/XOR Mixture display	
Reverse display	
Bit image display	
Draw command	
Macro function	
Program Macro function	
General-purpose I/O port control	
etc.	



Leaflet contents, and specifications and external appearance of products, may change without notice.

Please confirm product details in the specification.

(C)Copyright NORITAKE ITRON CORP.